1/12

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Lys Ph	e Met Ser Thr Ser 35	Ile Gly Asp	Arg Val	Asn Ile Thr 45	Cys Lys		
Ala Th 50	r Gln Asn Val Arg	Thr Ala Val 55	Thr Trp	Tyr Gln Gln 60	Lys Pro		
Gly Gl 65	n Ser Pro Gln Ala · 70	Leu Ile Phe	Leu Ala 75	Ser Asn Arg	His Thr 80		
Gly Va	l Pro Ala Arg Phe 85	Thr Gly Ser	Gly Ser 90	Gly Thr Asp	Phe Thr 95		
Leu Th	r Ile Asn Asn Val 100	Lys Ser Glu 105		Ala Asp Tyr 110	Phe Cys		
Leu Gl	n His Trp Asn Tyr 115	Pro Leu Thr 120	Phe Gly	Ser Gly Thr 125	Lys Leu		
Glu Il 13	e Lys Arg Ala Asp O	Ala Ala Pro 135	Thr Val	Ser Ile Phe 140	Pro Pro		

Ser Ser Glu Gln Leu Thr Ser Gly Gly Ala Ser Val Val Cys Phe Leu Asn Asn Phe Tyr Pro Lys Asp Ile Asn Val Lys Trp Lys Ile Asp Gly 170 Ser Glu Arg Gln Asn Gly Val Leu Asn Ser Trp Thr Asp Gln Asp Ser Lys Asp Ser Thr Tyr Ser Met Ser Ser Thr Leu Thr Leu Thr Lys Asp Glu Tyr Glu Arg His Asn Ser Tyr Thr Cys Glu Ala Thr His Lys Thr Ser Thr Ser Pro Ile Val Lys Ser Phe Asn Arg Gly Glu Cys Xaa Xaa Ser Arg Val Lys Arg Xaa Gln Ser Xaa Gly Gly Pro Gly Thr Pro Ile Arg Pro Ile Gly Xaa Pro Tyr Tyr Asn Ser Leu Gly Gly Gly Phe Gln 260 265 <210> 2 <211> 818 <212> DNA <213> Mus musculus <220> <221> misc_feature <222> (1)..(818) <223> n = a, t, g, c, unknown or other <220> <221> CDS <222> (3)..(818) <223> na ngt cat aat cca ata cct atg cct acg gca gcc gct gga ttg tta 47 Xaa His Asn Pro Ile Pro Met Pro Thr Ala Ala Ala Gly Leu Leu 1 5 tta ctc gct gcc caa cca gcc atg gcc gag ctc gtg atg acc cag tct 95 Leu Leu Ala Ala Gln Pro Ala Met Ala Glu Leu Val Met Thr Gln Ser 20 143 cca aaa ttc atg tcc aca tca ata gga gac agg gtc aat atc acc tgc Pro Lys Phe Met Ser Thr Ser Ile Gly Asp Arg Val Asn Ile Thr Cys 40 35

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														cgg Arg		239
														gat Asp		287
act Thr	ctc Leu	acc Thr	att Ile	aac Asn 100	aat Asn	gtg Val	aaa Lys	tct Ser	gaa Glu 105	gac Asp	ctg Leu	gca Ala	gat Asp	tat Tyr 110	ttc Phe	335
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ttg Leu	gaa Glu	ata Ile 130	aaa Lys	cgg Arg	gct Ala	gat Asp	gct Ala 135	gca Ala	cca Pro	act Thr	gta Val	tcc Ser 140	atc Ile	ttc Phe	cca Pro	431
cca Pro	tcc Ser 145	agt Ser	gag Glu	cag Gln	tta Leu	aca Thr 150	tct Ser	gga Gly	ggt Gly	gcc Ala	tca Ser 155	gtc Val	gtg Val	tgc Cys	ttc Phe	479
ttg Leu 160	aac Asn	aac Asn	ttc Phe	tac Tyr	ccc Pro 165	aaa Lys	gac Asp	atc Ile	aat Asn	gtc Val 170	aag Lys	tgg Trp	aag Lys	att Ile	gat Asp 175	527
ggc Gly	agt Ser	gaa Glu	cga Arg	caa Gln 180	aat Asn	ggc	gtc Val	ctg Leu	aac Asn 185	agt Ser	tgg Trp	act Thr	gat Asp	cag Gln 190	gac Asp	575
														acc Thr		623
gac Asp	gag Glu	tat Tyr 210	gaa Glu	cga Arg	cat His	aac Asn	agc Ser 215	tat Tyr	acc Thr	tgt Cys	gag Glu	gcc Ala 220	act Thr	cac His	aag Lys	671
aca Thr	tca Ser 225	act Thr	tca Ser	ccc Pro	att Ile	gtc Val 230	aag Lys	agc Ser	ttc Phe	aac Asn	agg Arg 235	gga Gly	gag Glu	tgt Cys	tag	719
taa	tct Ser	aga Arg 240	Val	aag Lys	cgg Arg	ccg Pro	caa Gln 245	tcg Ser	agg Arg	Gly ggg	ggc Gly	ccg Pro 250	gta Val	ccc Pro	caa Gln	767
	gcc Ala 255		tag	GJÀ āāā	ngc Xaa	cgt Arg	att Ile 260	aca Thr	att Ile	cac His	tgg Trp	gcg Ala 265	gcg Ala	gtt Val	ttc Phe	815
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Gly Pro Gly Leu Val Ala Pro Ser Glu Ser Leu Ser Ile Thr Cys Thr

Ile Ser Gly Phe Ser Leu Thr Asp Asp Gly Val Ser Trp Ile Arg Gln

Pro Pro Gly Lys Gly Leu Glu Trp Leu Gly Val Ile Trp Gly Gly

Ser Thr Tyr Phe Asn Ser Leu Phe Lys Ser Arg Leu Ser Ile Thr Arg 105

Asp Asn Ser Lys Ser Gln Val Phe Leu Glu Met Asp Ser Leu Gln Thr 120

Asp Asp Thr Ala Met Tyr Tyr Cys Ala Lys His Asp Gly His Glu Thr 135

Met Asp Tyr Trp Gly Gln Gly Thr Ser Val Thr Val Ser Ser Ser Lys

Thr Thr Pro Pro Ser Val Tyr Pro Leu Ala Pro Gly Ser Ala Ala Gln

Thr Asn Ser Met Val Thr Leu Gly Cys Leu Val Lys Gly Tyr Phe Pro 185

Glu Pro Val Thr Val Thr Trp Asn Ser Gly Ser Leu Ser Ser Gly Val . 200 205

His Thr Phe Pro Ala Val Leu Gln Ser Asp Leu Tyr Thr Leu Ser Ser 215 220 Ser Val Thr Val Pro Ser Ser Thr Trp Pro Ser Glu Thr Val Thr Cys 235 Asn Val Ala His Pro Ala Ser Ser Thr Lys Val Asp Lys Lys Ile Val 245 250 Pro Arg Asp Cys Thr Ser His His His His His Kaa Ala Ser Leu 260 265 Val Val Ala Val Ala Leu His Ser Phe Val Xaa Ile Lys Ala Asn Arg 275 280 Arg Pro Ala Xaa 290 <210> 4 <211> 876 <212> DNA <213> Mus musculus <220> <221> misc_feature <222> (1)..(876) <223> n = a, t, g, c, unknown or other <220> <221> CDS (222> (1)..(876) · <223> ttg gcc ncc cgc ggt ggc ggc cgc aaa att nta.ttt nca agg gag aca 48 Leu Ala Xaa Arg Gly Gly Gly Arg Lys Ile Xaa Phe Xaa Arg Glu Thr gtc ata atg aaa tac ctt ttn gcc tac ggg cca gcc gct gga ttg tta 96 Val Ile Met Lys Tyr Leu Xaa Ala Tyr Gly Pro Ala Ala Gly Leu Leu 25 tta ctc gct gcc caa cca gcc atg gcc cag gtg aaa ctg ctc gag tca 144 Leu Leu Ala Ala Gln Pro Ala Met Ala Gln Val Lys Leu Leu Glu Ser gga cct ggc ctg gtg gcg ccc tca gag agc ctg tcc atc aca tgc act 192 Gly Pro Gly Leu Val Ala Pro Ser Glu Ser Leu Ser Ile Thr Cys Thr atc tca ggg ttc tca tta acc gac gat ggt gta agc tgg att cgg cag 240 Ile Ser Gly Phe Ser Leu Thr Asp Asp Gly Val Ser Trp Ile Arg Gln cct cca gga aag ggt ctg gag tgg ctg gga gta ata tgg ggt ggt gga 288

									`	,, 14						
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			ttt Phe 100													336
			aag Lys													384
			gcc Ala													432
atg Met 145	gac Asp	tat Tyr	tgg Trp	ggt Gly	caa Gln 150	gga Gly	acc Thr	tca Ser	gtc Val	acc Thr 155	gtc Val	tcc Ser	tca Ser	tcc Ser	aaa Lys 160	480
			cca Pro													528
			atg Met 180													576
			aca Tḥr													624
			cca Pro													672
			gtc Val													720
aac Asn	gtt Val	gcc Ala	cac His	ccg Pro 245	gcc Ala	agc Ser	agc Ser	acc Thr	aag Lys 250	gtg Val	gac Asp	aag Lys	aaa Lys	att Ile 255	gtg Val	768
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gct gag gat gct gcc act tat tac tgc cag gag tgg agt ggt tat cct Ala Glu Asp Ala Ala Thr Tyr Tyr Cys Gln Glu Trp Ser Gly Tyr Pro 215 220 225 230	727
ctc acg ttc ggc tcg ggc acc aag cgg gaa atc aaa cgg gcg gcc gca Leu Thr Phe Gly Ser Gly Thr Lys Arg Glu Ile Lys Arg Ala Ala Ala 235 240 245	775
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Trp Ile Gly Trp Ile Phe Pro Gly Glu Gly Ser Thr Glu Tyr Asn Glu 50 55 60	
Lys Phe Lys Gly Arg Ala Thr Leu Ser Val Asp Lys Ser Ser Ser Thr 65. 70 75 80	
65. 70 75 80 Ala Tyr Met Glu Leu Thr Arg Leu Thr Ser Glu Asp Ser Ala Val Tyr	

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Gly Gly Ser Gly Gly Gly Ser Asp Ile Glu Leu Thr Gln Ser Pro 130 135 140

Ala Ile Met Ser Ala Ser Pro Gly Glu Arg Val Thr Met Thr Cys Ser 145 150 155 160

Ala Ser Ser Ser Ile Arg Tyr Ile Tyr Trp Tyr Gln Gln Lys Pro Gly
165 170 175

Ser Ser Pro Arg Leu Leu Ile Tyr Asp Thr Ser Asn Val Ala Pro Gly
180 185 190

Val Pro Phe Arg Phe Ser Gly Ser Gly Ser Gly Thr Ser Tyr Ser Leu 195 200 205

Thr Ile Asn Arg Met Glu Ala Glu Asp Ala Ala Thr Tyr Tyr Cys Gln 210 215 220

Glu Trp Ser Gly Tyr Pro Leu Thr Phe Gly Ser Gly Thr Lys Arg Glu 225 230 235 240

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540 cagtgacagt gacctggaac totggatoco tgtocagogg tgtgcacaco ttoccagotg 600 tectgeagte tgacetetae actetgagea geteagtgae tgteecetee ageacetgge 660 ccagegagae egteacetge aacgttgeee acceggeeag cageaceaag gtggacaaga 720 aaattqtqcc caqqqattqt actaqtqqtq qcqqaqgtaq tqqtqqcqqa ggtaqcqgtq 780 qcqqaqqttc tggtggcgga ggttccgaat tcctcgaggt gcccatccaa aaagtccaag atqacaccaa aacceteate aaqacaattq teaccaggat caatqacatt teacacaege 840 agtcagtctc ctccaaacag aaagtcaccg gtttggactt cattcctggg ctccacccca 900 960 tectgacett atecaagatg gaccagacae tggcagteta ccaacagate etcaccagta tgccttccag aaacgtgatc caaatatcca acgacctgga gaacctccgg gatcttcttc 1020 acqtqctqqc cttctctaag agctqccact tqccctqqqc cagtqqcctq gagaccttqq 1080 1140 acagcetggg gggtgteetg gaagetteag getaeteeae agaggtggtg geeetgagea 1200 qqctqcaqqq qtctctqcaq qacatqctqt qqcaqctqqa cctcaqccct qqqtqcacta 1252 qtcatcatca tcatcatcat taagctagcc tagtggtggc ggtggctctc ca

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<213> Mus musculus

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Trp Leu Gly Val Ile Trp Gly Gly Gly Ser Thr Tyr Phe Asn Ser Leu 50 55 60

Phe Lys Ser Arg Leu Ser Ile Thr Arg Asp Asn Ser Lys Ser Gln Val 65 70 75 80

Phe Leu Glu Met Asp Ser Leu Gln Thr Asp Asp Thr Ala Met Tyr Tyr 85 90 95

- Cys Ala Lys His Asp Gly His Glu Thr Met Asp Tyr Trp Gly Gln Gly 100 105 110
- Thr Ser Val Thr Val Ser Ser Ser Lys Thr Thr Pro Pro Ser Val Tyr 115 120 125
- Pro Leu Ala Pro Gly Ser Ala Ala Gln Thr Asn Ser Met Val Thr Leu 130 135 140
- Gly Cys Leu Val Lys Gly Tyr Phe Pro Glu Pro Val Thr Val Thr Trp 145 150 155 160
- Asn Ser Gly Ser Leu Ser Ser Gly Val His Thr Phe Pro Ala Val Leu 165 170 175
- Gln Ser Asp Leu Tyr Thr Leu Ser Ser Ser Val Thr Val Pro Ser Ser 180 185 190
- Thr Trp Pro Ser Glu Thr Val Thr Cys Asn Val Ala His Pro Ala Ser 195 200 205
- Ser Thr Lys Val Asp Lys Lys Ile Val Pro Arg Asp Cys Thr Ser Gly 210 215 220
- Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly 225 230 235 240
- Gly Gly Ser Glu Phe Leu Glu Val Pro Ile Gln Lys Val Gln Asp Asp 245 250 255
- Thr Lys Thr Leu Ile Lys Thr Ile Val Thr Arg Ile Asn Asp Ile Ser 260 265 270
- His Thr Gln Ser Val Ser Ser Lys Gln Lys Val Thr Gly Leu Asp Phe 275 280 285
- Ile Pro Gly Leu His Pro Ile Leu Thr Leu Ser Lys Met Asp Gln Thr 290 295 300
- Leu Ala Val Tyr Gln Gln Ile Leu Thr Ser Met Pro Ser Arg Asn Val 305 310 315 320
- Ile Gln Ile Ser Asn Asp Leu Glu Asn Leu Arg Asp Leu Leu His Val 325 330 335
- Leu Ala Phe Ser Lys Ser Cys His Leu Pro Trp Ala Ser Gly Leu Glu

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350

340 345

Thr Leu Asp Ser Leu Gly Gly Val Leu Glu Ala Ser Gly Tyr Ser Thr 355 360 365

Glu Val Val Ala Leu Ser Arg Leu Gln Gly Ser Leu Gln Asp Met Leu 370 375 380

Trp Gln Leu Asp Leu Ser Pro Gly Cys Thr Ser His His His His 385 390 395 400

His